

# FE49

## WIRE DRAG

FE49  
WIRE DRAG

NOAA FORM 76-35A	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT (HYDROGRAPHIC)	
Type of Survey .....	Wire Drag .....
Field No. ....	2344 .....
Office No.....	FE-49 .....
LOCALITY	
State .....	Maryland .....
General Locality ...	Chesapeake Bay .....
Locality .....	North of Cove Point .....
19 44	
CHIEF OF PARTY	
.....J.H. Brittain & W.R. Porter.....	
LIBRARY & ARCHIVES	
DATE .....	November 16, 1944 .....

☆ U.S. GOV. PRINTING OFFICE: 1976-669-441

NOTE: A new system for registering Field Examinations (FE's) was established in 1980. All FE's are now consecutively numbered as shown hereon. The date shown in the new format is the actual date of survey. This material was previously registered as:

FE No.7 1944



**FEN<sup>#7</sup> No. 7  
1944**

FE-49

U. S. COAST & GEODETIC SURVEY  
LIBRARY AND ARCHIVES

NOV 16 1944

Ac. No. \_\_\_\_\_

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

## DESCRIPTIVE REPORT

Type of Survey WIRE DRAG

Field No. 2344 Office No. ~~7-6903~~

### LOCALITY

State MARYLAND

General locality CHESAPEAKE BAY

Locality North of Cove Point

194 4

### CHIEF OF PARTY

John H. Brittain & Wilbur R. Porter

### LIBRARY & ARCHIVES

DATE NOV 16 1944

B-1870-1 (1)++

**FEN<sup>#7</sup> No. 7  
1944**

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

**HYDROGRAPHIC TITLE SHEET**

WIRE DRAG

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

REGISTER No. ~~5714~~ ~~146961~~

Field No. 2544

State MARYLAND

General locality CHESAPEAKE BAY

Locality NORTH OF COVE POINT

Scale 1: 20,000 Date of survey March 31, 1944

Instructions dated March 9, 1944

Vessel Launches HILGARD and FARIS

Chief of party John H. Brittain and Wilbur R. Porter

Surveyed by John H. Brittain and Wilbur R. Porter

Soundings taken by fathometer, graphic recorder, hand lead, wire

Protracted by A. Kaupa

Soundings penciled by A. Kaupa

Soundings in ~~fathoms~~ feet at MLW ~~MLW~~

REMARKS: This wire drag sheet was processed at the Norfolk Processing Office.

DESCRIPTIVE REPORT  
to accompany  
WIRE-DRAG SURVEY NO H-6981

Project CS 250 - 1944

AUTHORITY

The Director's letter reference no. 22/MEK 1995 HI 4 1995 FA 4, dated March 9, 1944. Subject: Wire-drag investigation north of Cove Point, Project CS-250.

SCOPE

The survey was made to prove or disprove the charted 40 ft. sounding in Chesapeake Bay north of Cove Point at latitude 38° 25', longitude 76° 22'.

SURVEY METHODS

Standard dual control wire drag procedure was employed, using the launches HILGARD and FARIS as towing vessels. Launch 101 was used as a tender.

The area in the vicinity of the charted 40 ft. sounding was dragged in two directions. Tests gave a maximum lift of 3 feet while dragging in a northerly direction. No tests were obtained on the southerly strip. It was assumed that the lift was the same in both directions as little current was noted. Using a lift of 3 feet the area was dragged to 48½ feet on the southerly strip and to 49 feet on the northerly strip without grounding in the vicinity of the charted 40 ft. sounding.

SIGNALS

The positions of the signals used were furnished by the Ship LYDONIA. These were listed in the wire-drag record.

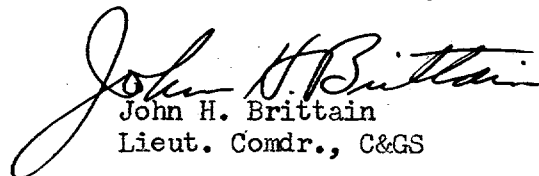
TIDES

Hourly heights taken from the record of the gage operated by the Ship LYDONIA at Long Beach were used for the reduction to mean low water.

STATISTICS

Area in square stat. miles	2.1
Miles of drag strip	2.7
Number of positions	20

Respectfully submitted,

  
John H. Brittain  
Lieut. Comdr., C&GS

A D D E N D U M

WIRE DRAG SURVEY H-6981

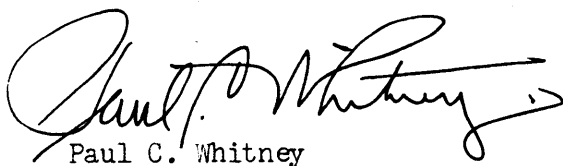
This sheet was processed at the Norfolk Processing Office.

Respectfully submitted,

  
Isadore M. Zeskind  
Cartographic Engineer

Norfolk, Va.  
November 13, 1944

Approved and forwarded

  
Paul C. Whitney  
Supervisor, SE District

Washington Office  
March 1, 1945

The 40 foot sounding was reported in 1923 by the Lighthouse Service (N. to M. 41 and 43) as being the depth over a sunken schooner from which the masts had been removed. The drag work accomplished by Mr. Brittain shows clearing depths of 48 and 49 feet and the accompanying tracing shows soundings of 54 to 58 feet presumably obtained by the LYTONIA after the area was dragged. The combination of hydrography and wire drag is accepted as satisfactory and the 40 should be removed from the charts.



## TIDE NOTE FOR HYDROGRAPHIC SHEET

February 24, 1945

~~Division of Hydrography and Topography:~~

✓ Division of Charts: Attention: Harold W. Murray

Plane of reference approved in  
1 volumes of sounding <sup>wire drag</sup> records for

HYDROGRAPHIC SHEET ~~6001~~

Locality Off Cove Point, Chesapeake Bay.

Chief of Party: W. R. Porter in 1944  
Plane of reference is mean low water reading  
3.7 ft. on tide staff at Long Beach  
6.8 ft. below B. M. 1

Height of mean high water above plane of reference is 1.0 feet.

Condition of records satisfactory except as noted below:

*H. A. Marmel*  
Acting Chief, Division of Tides and Currents.



23'

22'

76° 21'

26'

26'

38° 25'

38° 25'

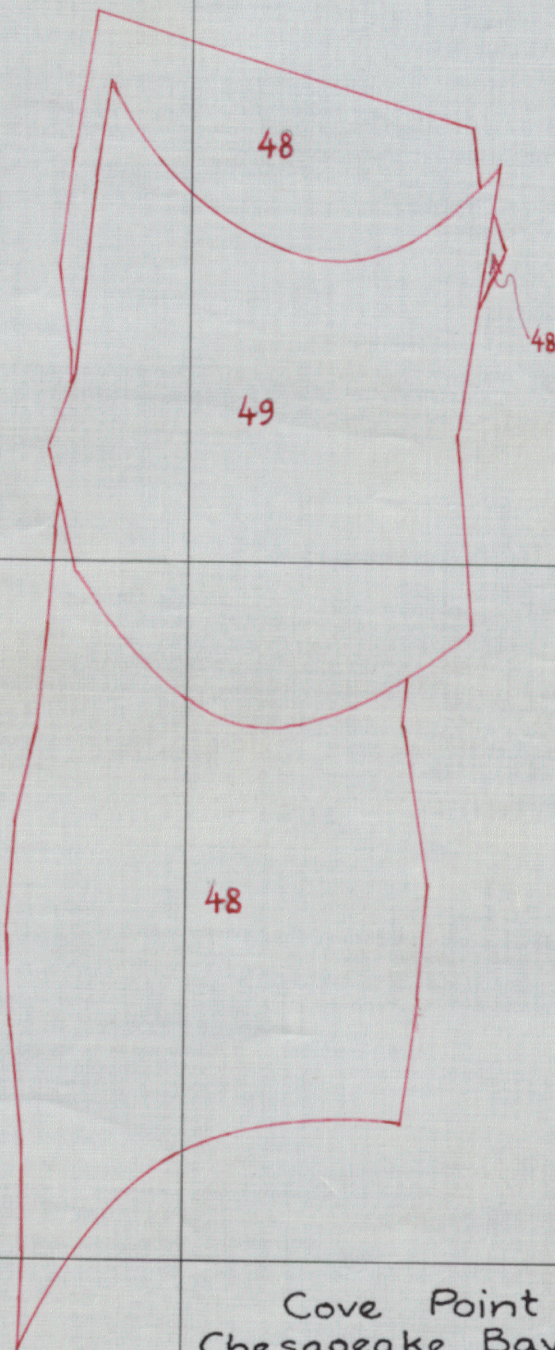
24'

24'

23'

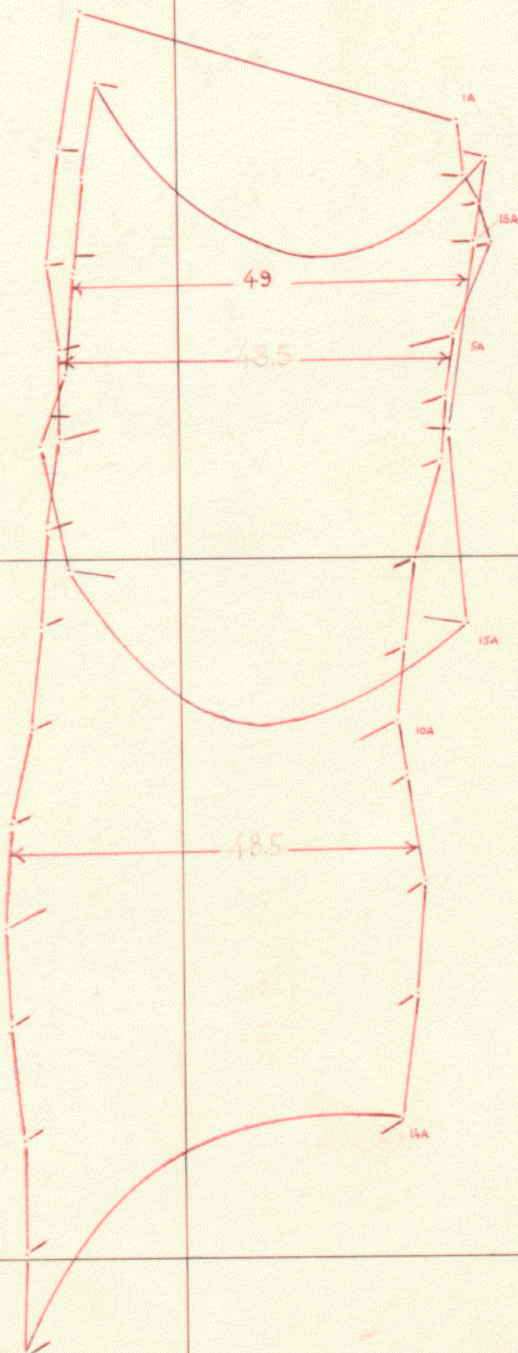
22'

76° 21'



Cove Point  
Chesapeake Bay, Md.  
March, 1944.  
Scale 1: 20,000  
F.E. # 7 (1944)





38°25'

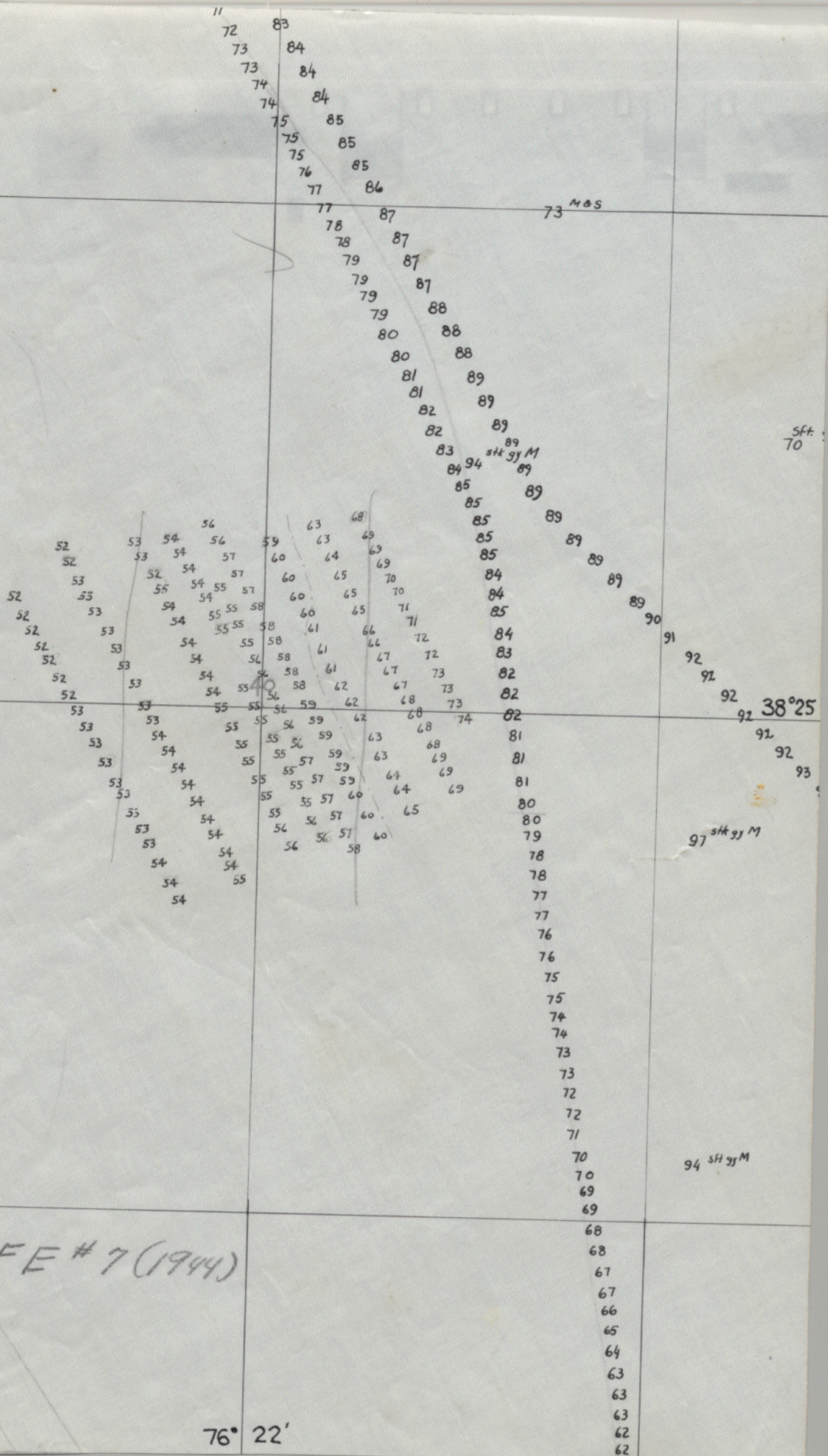
F.E #7 (1944)

76°22'



FE # 7 (1944)

76° 22'





# NAUTICAL CHARTS BRANCH

SURVEY NO. FE No 7 (1944)

## Record of Application to Charts

[illegible]

M-2168-1

**A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.**